What is claimed is:

1. An image forming method comprising:

exposing to a radiation source a photothermographic material comprising, on a same surface of a support, a photosensitive silver halide having a silver iodide content of 40 to 100 mol%, a non-photosensitive organic silver salt, a reducing agent and a binder; and

thermally developing the photothermographic material with a developing time of 1 to 12 seconds.

- 2. The image forming method according to claim 1, wherein the developing time is 2 to 10 seconds.
- 3. The image forming method according to claim 1, wherein the thermal development is conducted at a temperature of 80 to 250 °C.
- 4. The image forming method according to claim 1, wherein the thermal development is conducted at a temperature of 100 to 140 °C.
- 5. The image forming method according to claim 1, wherein the photothermographic material further includes an antifogging agent.
- 6. The image forming method according to claim 1, wherein the photosensitive silver halide has an average grain size of 5 to 50 nm.

- 7. The image forming method according to claim 1, wherein the photothermographic material further includes a development accelerator.
- 8. The image forming method according to claim 1, wherein the photothermographic material further includes a compound represented by the following formula (H):

Formula (H) $Q_{-}(Y)_{n}-C(Z_{1})(Z_{2})X$ wherein in formula (H), Q represents an alkyl group, an aryl group or a heterocyclic group; Y represents a divalent connecting group; n represents 0 or 1; Z_{1} and Z_{2} each independently represent a halogen atom; and X represents a hydrogen atom or an electron attracting group.

- 9. The image forming method according to claim 1, wherein the photothermographic material further includes a toning agent.
- 10. The image forming method according to claim 1, wherein the photothermographic material further includes a ultra-high contrast agent.
- 11. The image forming method according to claim 1, wherein the photothermographic material further includes a matting agent.
- 12. The image forming method according to claim 1, wherein the radiation source was a laser.

- 13. The image forming method according to claim 1, wherein the laser has a light emission peak intensity within a wavelength range of 350 to 450 nm.
- 14. The image forming method according to claim 1, wherein the reducing agent is a compound represented by the following formula (R-1):

Formula (R-1)

wherein in formula (R-1), R¹¹ and R^{11'} each independently represent an alkyl group having 1 to 20 carbon atoms; R¹² and R^{12'} each independently represent an alkyl group having 2 to 20 carbon atoms; L represents a -S- group or a -CHR¹³- group; R¹³ represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms; X¹ and X^{1'} each

independently represent a hydrogen atom or a group that can substitute a benzene ring.

- 15. A photothermographic material comprising, on a same surface of a support, a photosensitive silver halide, a non-photosensitive organic silver salt, a reducing agent and a binder, wherein the photosensitive silver halide has a silver iodide content of 40 to 100 mol%, and the material is thermally developed within a developing time of 1 to 12 seconds.
- 16. The photothermographic material according to claim 15, wherein the photosensitive silver halide has an average grain size of 5 to 50 nm.
- 17. The photothermographic material according to claim 15, further comprising a development accelerator.
- 18. The photothermographic material according to claim 15, further comprising a antifogging agent.
- 19. The photothermographic material according to claim 15, further comprising a compound represented by the following formula (H):
- Formula (H) $Q-(Y)_n-C(Z_1)(Z_2)X$ wherein in formula (H), Q represents an alkyl group, an aryl group or a

heterocyclic group; Y represents a divalent connecting group; n represents 0 or 1; Z_1 and Z_2 each independently represent a halogen atom; and X represents a hydrogen atom or an electron attracting group.

20. The photothermographic material according to claim 15, wherein the reducing agent is a compound represented by the following formula (R-1):

Formula (R-1)

wherein in formula (R-1), R¹¹ and R^{11'} each independently represent an alkyl group having 1 to 20 carbon atoms; R¹² and R^{12'} each independently represent an alkyl group having 2 to 20 carbon atoms; L represents a -S- group or a -CHR¹³- group; R¹³ represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms; X¹ and X^{1'} each

independently represent a hydrogen atom or a group that can substitute a benzene ring.